June 26, 2020

Report to:

Lynda Lombardi

Wood - E&I Solutions, Inc. 10940 White Rock Road

Suite 190

Rancho Cordova, CA 95670

Bill to:

Ashley Shively

Wood - E&I Solutions, Inc.

10940 White Rock Rd

Ste 190

Rancho Cordova, CA 95670

Project ID:

ACZ Project ID: L57216

Lynda Lombardi:

Enclosed are revised analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on February 03, 2020 and originally reported on March 03, 2020. Refer to the case narrative for an explanation of the changes. This project was assigned to ACZs project number, L57216. Please reference this number in all future inquiries.

All analyses were performed according to ACZs Quality Assurance Plan. The enclosed results relate only to the samples received under L57216. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZs current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after April 02, 2020. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZs stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

Sue Webber has reviewed and approved this report.

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Case Narrative

Wood - El Solutions, Inc.

June 26, 2020

Project ID:

ACZ Project ID: L57216

### Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 11 miscellaneous samples from Wood - E&I Solutions, Inc. on February 3, 2020. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ scomputerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L57216. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

### **Holding Times**

All analyses were performed within EPA recommended holding times.

### Sample Analysis

These samples were analyzed for inorganic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports.

This report was revised on 06/26/2020 to report corrected sulfur forms data and to add additional calculations per Nevada regulations. No other changes were made.

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Project ID:

Sample ID: WRSB227-FD\_0.5-3 ACZ Sample ID: **L57216-01** 

Date Sampled: 01/24/20 08:42

Date Received: 02/03/20

Sample Matrix: Soil

Soil Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acid Generation Potential (calc on Sulfur total)	M600/2-78-054 3.2.4		1.56	В		t CaCO3/Kt	0.31	3.1	06/26/20 0:00	calc
Acid Neutralization Potential (calc)	M600/2-78-054 3.2.3 NV Modified Sobek Procedure	e	8			t CaCO3/Kt	1	5	06/26/20 0:00	calc
ANP to AGP Ratio (calc)	M600/2-78-054 NV Modified Sobek Procedure	Э	5.12			t CaCO3/Kt			06/26/20 0:00	calc
Net Acid Generation Procedure	Sequential NAG - EGI 2002									
NAG		1	7		*	Kg H2SO4/t	1	1	02/14/20 0:00	jms
pH After Oxidation		1	5.7		*	units	0.1	0.1	02/14/20 0:00	jms
Net Neutralization Potential - NV Mod	M600/2-78-054 NV Modified Sobek Procedure	e	6.44			t CaCO3/Kt			06/26/20 0:00	calc
Neutralization Potential as CaCO3	M600/2-78-054 NV Modified Sobek Procedure	1 e	0.8		*	%	0.1	0.5	02/19/20 9:52	nnk
Potential Acid Generating Sulfur Sulfur Forms	M600/2-78-054 NV Modified Sobek Procedure M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	9	0.04			%	0.01	0.1	06/26/20 0:00	calc
H2O-Soluble Sulfate		1	0.02	В	*	%	0.01	0.1	03/03/20 0:00	IIr
HCI Rinse Residue		1	0.02	В	*	%	0.01	0.1	03/03/20 0:00	IIr
HNO3 Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Hot Water Rinse Residue		1	0.03	В	*	%	0.01	0.1	03/03/20 0:00	llr
Non-Extractable Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Non-H2O Sulfate Sulfur		1	0.01	В	*	%	0.01	0.1	03/03/20 0:00	llr
Pyritic Sulfur		1	0.02	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Total Sulfur		1	0.05	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Soil Preparation										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				02/10/20 17:50	) jms
Crush and Pulverize (Ring & Puck)	EPA-600/2-78-054 3.1.3				*				02/12/20 18:36	jms

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REPIN.02.06.05.01 \* Please refer to Qualifier Reports for details.



WRSB227\_6-15

Sample ID:

Wood - E&I Solutions, Inc. ACZ Sample ID: L57216-02

Project ID: Date Sampled: 01/24/20 08:50

Date Received: 02/03/20

Sample Matrix: Soil

Soil Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acid Generation Potential (calc on Sulfur total)	M600/2-78-054 3.2.4		0.94	В		t CaCO3/Kt	0.31	3.1	06/26/20 0:00	calc
Acid Neutralization Potential (calc)	M600/2-78-054 3.2.3 NV Modified Sobek Procedure	Э	11			t CaCO3/Kt	1	5	06/26/20 0:00	calc
ANP to AGP Ratio (calc) Net Acid Generation	M600/2-78-054 NV Modified Sobek Procedure Sequential NAG - EGI 2002	e	11.7			t CaCO3/Kt			06/26/20 0:00	calc
Procedure		4	.4			14 1.1000 4/4		4	00/44/00 0.00	
NAG		1	<1	U		Kg H2SO4/t	1	1	02/14/20 0:00	jms
pH After Oxidation		1	7.0		*	units	0.1	0.1	02/14/20 0:00	jms
Net Neutralization Potential - NV Mod	M600/2-78-054 NV Modified Sobek Procedure	Э	10.1			t CaCO3/Kt			06/26/20 0:00	calc
Neutralization Potential as CaCO3	M600/2-78-054 NV Modified Sobek Procedure	1 e	1.1		*	%	0.1	0.5	02/19/20 10:06	nnk
Potential Acid Generating Sulfur Sulfur Forms	M600/2-78-054 NV Modified Sobek Procedure M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	е	0.02			%	0.01	0.1	06/26/20 0:00	calc
H2O-Soluble Sulfate		1	0.01	В	*	%	0.01	0.1	03/03/20 0:00	IIr
HCI Rinse Residue		1	0.01	В	*	%	0.01	0.1	03/03/20 0:00	llr
HNO3 Rinse Residue		1	< 0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Hot Water Rinse Residue		1	0.02	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Non-Extractable Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Non-H2O Sulfate Sulfur		1	0.01	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Pyritic Sulfur		1	0.01	В	*	%	0.01	0.1	03/03/20 0:00	llr
Total Sulfur		1	0.03	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Soil Preparation										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				02/10/20 17:54	jms
Crush and Pulverize (Ring & Puck)	EPA-600/2-78-054 3.1.3				*				02/12/20 18:50	jms

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<sup>\*</sup> Please refer to Qualifier Reports for details.



ACZ Sample ID: L57216-03 Project ID:

Date Sampled: 01/24/20 09:35 Sample ID: WRSB233\_0.5-3 Date Received: 02/03/20

Sample Matrix: Soil

Soil Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acid Generation Potential (calc on Sulfur total)	M600/2-78-054 3.2.4		3.75			t CaCO3/Kt	0.31	3.1	06/26/20 0:00	calc
Acid Neutralization Potential (calc)	M600/2-78-054 3.2.3 NV Modified Sobek Procedure	)	5			t CaCO3/Kt	1	5	06/26/20 0:00	calc
ANP to AGP Ratio (calc) Net Acid Generation Procedure	M600/2-78-054 NV Modified Sobek Procedure Sequential NAG - EGI 2002	•	1.33			t CaCO3/Kt			06/26/20 0:00	calc
NAG		1	18		*	Kg H2SO4/t	1	1	02/14/20 0:00	jms
pH After Oxidation		1	5.3		*	units	0.1	0.1	02/14/20 0:00	jms
Net Neutralization Potential - NV Mod	M600/2-78-054 NV Modified Sobek Procedure	•	1.25			t CaCO3/Kt			06/26/20 0:00	calc
Neutralization Potential as CaCO3	M600/2-78-054 NV Modified Sobek Procedure	1	0.5		*	%	0.1	0.5	02/19/20 10:20	nnk
Potential Acid Generating Sulfur Sulfur Forms	M600/2-78-054 NV Modified Sobek Procedure M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	•	0.04			%	0.01	0.1	06/26/20 0:00	calc
H2O-Soluble Sulfate		1	0.01	В	*	%	0.01	0.1	03/03/20 0:00	llr
HCI Rinse Residue		1	0.04	В	*	%	0.01	0.1	03/03/20 0:00	llr
HNO3 Rinse Residue		1	0.01	В	*	%	0.01	0.1	03/03/20 0:00	llr
Hot Water Rinse Residue		1	0.11		*	%	0.01	0.1	03/03/20 0:00	llr
Non-Extractable Sulfur		1	0.01	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Non-H2O Sulfate Sulfur		1	0.07	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Pyritic Sulfur		1	0.03	В	*	%	0.01	0.1	03/03/20 0:00	llr
Total Sulfur		1	0.12		*	%	0.01	0.1	03/03/20 0:00	IIr
Soil Preparation										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				02/10/20 17:58	jms
Crush and Pulverize (Ring & Puck)	EPA-600/2-78-054 3.1.3				*				02/12/20 19:04	jms

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<sup>\*</sup> Please refer to Qualifier Reports for details.



Project ID:

Sample ID: WRSB233\_6-15 ACZ Sample ID: L57216-04

Date Sampled: 01/24/20 09:42

Date Received: 02/03/20

Sample Matrix: Soil

Soil Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acid Generation Potential (calc on Sulfur total)	M600/2-78-054 3.2.4		2.81	В		t CaCO3/Kt	0.31	3.1	06/26/20 0:00	calc
Acid Neutralization Potential (calc)	M600/2-78-054 3.2.3 NV Modified Sobek Procedure	•	18			t CaCO3/Kt	1	5	06/26/20 0:00	calc
ANP to AGP Ratio (calc)	M600/2-78-054 NV Modified Sobek Procedure	e	6.4			t CaCO3/Kt			06/26/20 0:00	calc
Net Acid Generation Procedure	Sequential NAG - EGI 2002									
NAG		1	4		*	Kg H2SO4/t	1	1	02/14/20 0:00	jms
pH After Oxidation		1	6.7		*	units	0.1	0.1	02/14/20 0:00	jms
Net Neutralization Potential - NV Mod	M600/2-78-054 NV Modified Sobek Procedure	e	15.2			t CaCO3/Kt			06/26/20 0:00	calc
Neutralization Potential as CaCO3	M600/2-78-054 NV Modified Sobek Procedure	1	1.8		*	%	0.1	0.5	02/19/20 10:34	nnk
Potential Acid Generating Sulfur Sulfur Forms	M600/2-78-054 NV Modified Sobek Procedure M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	9	0.02			%	0.01	0.1	06/26/20 0:00	calc
H2O-Soluble Sulfate		1	0.01	В	*	%	0.01	0.1	03/03/20 0:00	Ilr
HCI Rinse Residue		1	0.01	В	*	%	0.01	0.1	03/03/20 0:00	IIr
HNO3 Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Hot Water Rinse Residue		1	0.08	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Non-Extractable Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Non-H2O Sulfate Sulfur		1	0.07	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Pyritic Sulfur		1	0.01	В	*	%	0.01	0.1	03/03/20 0:00	Ilr
Total Sulfur		1	0.09	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Soil Preparation										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				02/10/20 18:02	jms
Crush and Pulverize (Ring & Puck)	EPA-600/2-78-054 3.1.3				*				02/12/20 19:18	jms

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<sup>\*</sup> Please refer to Qualifier Reports for details.



Project ID:

Sample ID: WRSB237\_0.5-3

ACZ Sample ID: **L57216-05** 

Date Sampled: 01/24/20 10:17

Date Received: 02/03/20

Sample Matrix: Soil

Soil Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acid Generation Potential (calc on Sulfur total)	M600/2-78-054 3.2.4			U		t CaCO3/Kt	0.31	3.1	06/26/20 0:00	calc
Acid Neutralization Potential (calc)	M600/2-78-054 3.2.3 NV Modified Sobek Procedure	)	21			t CaCO3/Kt	1	5	06/26/20 0:00	calc
ANP to AGP Ratio (calc)	M600/2-78-054 NV Modified Sobek Procedure	•	> 67.74			-			06/26/20 0:00	calc
Net Acid Generation Procedure	Sequential NAG - EGI 2002									
NAG		1	<1	U	*	Kg H2SO4/t	1	1	02/14/20 0:00	jms
pH After Oxidation		1	7.9		*	units	0.1	0.1	02/14/20 0:00	jms
Net Neutralization Potential - NV Mod	M600/2-78-054 NV Modified Sobek Procedure	)	21			t CaCO3/Kt			06/26/20 0:00	calc
Neutralization Potential as CaCO3	M600/2-78-054 NV Modified Sobek Procedure	1	2.1		*	%	0.1	0.5	02/19/20 10:48	nnk
Potential Acid Generating Sulfur Sulfur Forms	M600/2-78-054 NV Modified Sobek Procedure M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	9	0			%	0.01	0.1	06/26/20 0:00	calc
H2O-Soluble Sulfate		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
HCI Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
HNO3 Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Hot Water Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Non-Extractable Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Non-H2O Sulfate Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Pyritic Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Total Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Soil Preparation										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				02/10/20 18:06	jms
Crush and Pulverize (Ring & Puck)	EPA-600/2-78-054 3.1.3				*				02/12/20 19:32	jms

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<sup>\*</sup> Please refer to Qualifier Reports for details.



ACZ Sample ID: **L57216-06** 

Project ID:

Date Sampled: 01/24/20 10:28

Sample ID: WRSB237\_6-15

Date Received: 02/03/20

Sample Matrix: Soil

Soil Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acid Generation Potential (calc on Sulfur total)	M600/2-78-054 3.2.4			U		t CaCO3/Kt	0.31	3.1	06/26/20 0:00	calc
Acid Neutralization Potential (calc)	M600/2-78-054 3.2.3 NV Modified Sobek Procedure	Э	28			t CaCO3/Kt	1	5	06/26/20 0:00	calc
ANP to AGP Ratio (calc)	M600/2-78-054 NV Modified Sobek Procedure	Э	> 90.32			-			06/26/20 0:00	calc
Net Acid Generation Procedure	Sequential NAG - EGI 2002									
NAG		1	<1	U	*	Kg H2SO4/t	1	1	02/14/20 0:00	jms
pH After Oxidation		1	8.7		*	units	0.1	0.1	02/14/20 0:00	jms
Net Neutralization Potential - NV Mod	M600/2-78-054 NV Modified Sobek Procedure	e	28			t CaCO3/Kt			06/26/20 0:00	calc
Neutralization Potential as CaCO3	M600/2-78-054 NV Modified Sobek Procedure	1 e	2.8		*	%	0.1	0.5	02/19/20 11:01	nnk
Potential Acid Generating Sulfur Sulfur Forms	M600/2-78-054 NV Modified Sobek Procedure M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	e	0			%	0.01	0.1	06/26/20 0:00	calc
H2O-Soluble Sulfate		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
HCI Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
HNO3 Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Hot Water Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Non-Extractable Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Non-H2O Sulfate Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Pyritic Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Total Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Soil Preparation										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				02/10/20 18:10	) jms
Crush and Pulverize (Ring & Puck)	EPA-600/2-78-054 3.1.3				*				02/12/20 19:45	jms

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Project ID:

Sample ID: WRSB238\_0.5-3

ACZ Sample ID: **L57216-07** 

Date Sampled: 01/27/20 12:58

Date Received: 02/03/20

Sample Matrix: Soil

Soil Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acid Generation Potential (calc on Sulfur total)	M600/2-78-054 3.2.4		1.25	В		t CaCO3/Kt	0.31	3.1	06/26/20 0:00	calc
Acid Neutralization Potential (calc)	M600/2-78-054 3.2.3 NV Modified Sobek Procedure	)	20			t CaCO3/Kt	1	5	06/26/20 0:00	calc
ANP to AGP Ratio (calc)	M600/2-78-054 NV Modified Sobek Procedure	<b>)</b>	16			t CaCO3/Kt			06/26/20 0:00	calc
Net Acid Generation Procedure	Sequential NAG - EGI 2002									
NAG		1	<1	U	*	Kg H2SO4/t	1	1	02/14/20 0:00	jms
pH After Oxidation		1	7.0		*	units	0.1	0.1	02/14/20 0:00	jms
Net Neutralization Potential - NV Mod	M600/2-78-054 NV Modified Sobek Procedure	<b>;</b>	18.8			t CaCO3/Kt			06/26/20 0:00	calc
Neutralization Potential as CaCO3	M600/2-78-054 NV Modified Sobek Procedure	1	2.0		*	%	0.1	0.5	02/19/20 11:15	nnk
Potential Acid Generating Sulfur Sulfur Forms	M600/2-78-054 NV Modified Sobek Procedure M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	•	0.01			%	0.01	0.1	06/26/20 0:00	calc
H2O-Soluble Sulfate		1	0.01	В	*	%	0.01	0.1	03/03/20 0:00	IIr
HCI Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
HNO3 Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Hot Water Rinse Residue		1	0.03	В	*	%	0.01	0.1	03/03/20 0:00	llr
Non-Extractable Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Non-H2O Sulfate Sulfur		1	0.03	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Pyritic Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Total Sulfur		1	0.04	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Soil Preparation										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				02/10/20 18:14	jms
Crush and Pulverize (Ring & Puck)	EPA-600/2-78-054 3.1.3				*				02/12/20 19:59	jms

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REPIN.02.06.05.01 \* Please refer to Qualifier Reports for details.



ACZ Sample ID: L57216-08

Project ID:

Date Sampled: 01/27/20 13:23

Sample ID: WRSB238\_6-15

Date Received: 02/03/20

Sample Matrix: Soil

Soil Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acid Generation Potential (calc on Sulfur total)	M600/2-78-054 3.2.4		1.25	В		t CaCO3/Kt	0.31	3.1	06/26/20 0:00	calc
Acid Neutralization Potential (calc)	M600/2-78-054 3.2.3 NV Modified Sobek Procedure	•	20			t CaCO3/Kt	1	5	06/26/20 0:00	calc
ANP to AGP Ratio (calc)	M600/2-78-054 NV Modified Sobek Procedure	<b>:</b>	16			t CaCO3/Kt			06/26/20 0:00	calc
Net Acid Generation Procedure	Sequential NAG - EGI 2002									
NAG		1	<1	U	*	Kg H2SO4/t	1	1	02/14/20 0:00	jms
pH After Oxidation		1	7.5		*	units	0.1	0.1	02/14/20 0:00	jms
Net Neutralization Potential - NV Mod	M600/2-78-054 NV Modified Sobek Procedure	•	18.8			t CaCO3/Kt			06/26/20 0:00	calc
Neutralization Potential as CaCO3	M600/2-78-054 NV Modified Sobek Procedure	1	2.0		*	%	0.1	0.5	02/19/20 11:29	nnk
Potential Acid Generating Sulfur	M600/2-78-054 NV Modified Sobek Procedure	<b>:</b>	0.01			%	0.01	0.1	06/26/20 0:00	calc
Sulfur Forms	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc									
H2O-Soluble Sulfate		1	0.01	В	*	%	0.01	0.1	03/03/20 0:00	IIr
HCI Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
HNO3 Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Hot Water Rinse Residue		1	0.03	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Non-Extractable Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Non-H2O Sulfate Sulfur		1	0.03	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Pyritic Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Total Sulfur		1	0.04	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Soil Preparation										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				02/10/20 18:18	jms
Crush and Pulverize (Ring & Puck)	EPA-600/2-78-054 3.1.3				*				02/12/20 20:13	jms

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<sup>\*</sup> Please refer to Qualifier Reports for details.



Wood - E&I Solutions, Inc. ACZ Sample ID: L57216-09

Project ID: Date Sampled: 01/27/20 13:29
Sample ID: WRSB238-FD\_6-15
Date Received: 02/03/20

Date Received: 02/03/20 Sample Matrix: Soil

Soil Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acid Generation Potential (calc on Sulfur total)	M600/2-78-054 3.2.4		0.94	В		t CaCO3/Kt	0.31	3.1	06/26/20 0:00	calc
Acid Neutralization Potential (calc)	M600/2-78-054 3.2.3 NV Modified Sobek Procedure	<b>e</b>	21			t CaCO3/Kt	1	5	06/26/20 0:00	calc
ANP to AGP Ratio (calc) Net Acid Generation Procedure	M600/2-78-054 NV Modified Sobek Procedure Sequential NAG - EGI 2002	•	22.4			t CaCO3/Kt			06/26/20 0:00	calc
NAG		1	<1	U	*	Kg H2SO4/t	1	1	02/14/20 0:00	jms
pH After Oxidation		1	8.0		*	units	0.1	0.1	02/14/20 0:00	jms
Net Neutralization Potential - NV Mod	M600/2-78-054 NV Modified Sobek Procedure	)	20.1			t CaCO3/Kt			06/26/20 0:00	calc
Neutralization Potential as CaCO3	M600/2-78-054 NV Modified Sobek Procedure	1	2.1		*	%	0.1	0.5	02/19/20 11:57	nnk
Potential Acid Generating Sulfur Sulfur Forms	M600/2-78-054 NV Modified Sobek Procedure M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	•	0.01			%	0.01	0.1	06/26/20 0:00	calc
H2O-Soluble Sulfate		1	0.01	В	*	%	0.01	0.1	03/03/20 0:00	llr
HCI Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
HNO3 Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Hot Water Rinse Residue		1	0.02	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Non-Extractable Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	Ilr
Non-H2O Sulfate Sulfur		1	0.02	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Pyritic Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Total Sulfur		1	0.03	В	*	%	0.01	0.1	03/03/20 0:00	IIr
Soil Preparation										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				02/10/20 18:22	jms
Crush and Pulverize	EPA-600/2-78-054 3.1.3				*				02/12/20 20:27	jms

(Ring & Puck)

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<sup>\*</sup> Please refer to Qualifier Reports for details.



ACZ Sample ID: L57216-10

Project ID:

Date Sampled: 01/27/20 14:44

Sample ID: WRSB239\_0.5-3

Date Received: 02/03/20

Sample Matrix: Soil

Soil Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acid Generation Potential (calc on Sulfur total)	M600/2-78-054 3.2.4			U		t CaCO3/Kt	0.31	3.1	06/26/20 0:00	calc
Acid Neutralization Potential (calc)	M600/2-78-054 3.2.3 NV Modified Sobek Procedure	)	31			t CaCO3/Kt	1	5	06/26/20 0:00	calc
ANP to AGP Ratio (calc)	M600/2-78-054 NV Modified Sobek Procedure	•	> 100			-			06/26/20 0:00	calc
Net Acid Generation Procedure	Sequential NAG - EGI 2002									
NAG		1	<1	U	*	Kg H2SO4/t	1	1	02/14/20 0:00	jms
pH After Oxidation		1	8.1		*	units	0.1	0.1	02/14/20 0:00	jms
Net Neutralization Potential - NV Mod	M600/2-78-054 NV Modified Sobek Procedure	)	31			t CaCO3/Kt			06/26/20 0:00	calc
Neutralization Potential as CaCO3	M600/2-78-054 NV Modified Sobek Procedure	1	3.1		*	%	0.1	0.5	02/19/20 12:10	nnk
Potential Acid Generating Sulfur Sulfur Forms	M600/2-78-054 NV Modified Sobek Procedure M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	9	0			%	0.01	0.1	06/26/20 0:00	calc
H2O-Soluble Sulfate		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
HCI Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
HNO3 Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Hot Water Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Non-Extractable Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	Ilr
Non-H2O Sulfate Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Pyritic Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Total Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Soil Preparation										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				02/10/20 18:26	jms
Crush and Pulverize (Ring & Puck)	EPA-600/2-78-054 3.1.3				*				02/12/20 20:41	jms

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WRSB239\_6-15

Sample ID:

Wood - E&I Solutions, Inc. ACZ Sample ID: L57216-11

Project ID: Date Sampled: 01/27/20 14:52

Date Received: 02/03/20

Sample Matrix: Soil

Soil Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acid Generation Potential (calc on Sulfur total)	M600/2-78-054 3.2.4			U		t CaCO3/Kt	0.31	3.1	06/26/20 0:00	calc
Acid Neutralization Potential (calc)	M600/2-78-054 3.2.3 NV Modified Sobek Procedure	e	18			t CaCO3/Kt	1	5	06/26/20 0:00	calc
ANP to AGP Ratio (calc)	M600/2-78-054 NV Modified Sobek Procedure	e	> 58.06			-			06/26/20 0:00	calc
Net Acid Generation Procedure	Sequential NAG - EGI 2002									
NAG		1	<1	U	*	Kg H2SO4/t	1	1	02/14/20 0:00	jms
pH After Oxidation		1	7.5		*	units	0.1	0.1	02/14/20 0:00	jms
Net Neutralization Potential - NV Mod	M600/2-78-054 NV Modified Sobek Procedure	Э	18			t CaCO3/Kt			06/26/20 0:00	calc
Neutralization Potential as CaCO3	M600/2-78-054 NV Modified Sobek Procedure	1 e	1.8		*	%	0.1	0.5	02/19/20 12:24	nnk
Potential Acid Generating Sulfur	M600/2-78-054 NV Modified Sobek Procedure	е	0			%	0.01	0.1	06/26/20 0:00	calc
Sulfur Forms	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc									
H2O-Soluble Sulfate		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	Ilr
HCI Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
HNO3 Rinse Residue		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Hot Water Rinse		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Residue										
Non-Extractable Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Non-H2O Sulfate Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Pyritic Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	llr
Total Sulfur		1	<0.01	U	*	%	0.01	0.1	03/03/20 0:00	IIr
Soil Preparation										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972				*				02/10/20 18:30	) jms
Crush and Pulverize (Ring & Puck)	EPA-600/2-78-054 3.1.3				*				02/12/20 20:55	jms

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2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report Header Expla	anations
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Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5).

Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit. Synonymous with the EPA term "minimum level".

QC True Value of the Control Sample or the amount added to the Spike

Rec Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

ac cumple lypes	QC	Samp	le Ty	pes
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71			
AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	LRB	Laboratory Reagent Blank
ICB	Initial Calibration Blank	MS	Matrix Spike
ICV	Initial Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	PBW	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	SDL	Serial Dilution

### QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method.

Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

### ACZ Qualifiers (Qual)

- B Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
- H Analysis exceeded method hold time. pH is a field test with an immediate hold time.
- L Target analyte response was below the laboratory defined negative threshold.
- U The material was analyzed for, but was not detected above the level of the associated value.

The associated value is either the sample quantitation limit or the sample detection limit.

### Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples Supplement I, May 1994.
- (4) EPA SW-846. Test Methods for Evaluating Solid Waste.
- (5) Standard Methods for the Examination of Water and Wastewater.

### Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ Extended Qualifiers, please click:

https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

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# Wood - E&I Solutions, Inc.

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

limits are in % F	Rec.												
Net Acid Genera	ation		Sequentia	al NAG - E	GI 2002								
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qua
WG491739													
L57216-11DUP	DUP	02/14/20 17:44			U	U	(g H2SO4	1/			0	20	RA
Neutralization P	otential	as CaCO3	M600/2-7	8-054 NV	Modified S	Sobek P	rocedure						
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qua
WG491916													
WG491916PBS	PBS	02/19/20 9:25				U	%		-0.2	0.2			
WG491916LCSS	LCSS	02/19/20 9:39	PCN59475	99.9		110	%	110	80	120			
L57216-11MS	MS	02/19/20 12:38	SI190303-1	1	1.8	2.73	%	93	70	130			
L57216-11DUP	DUP	02/19/20 12:52			1.8	1.83	%				2	20	
Sulfur Hcl Extra	ctable		M600/2-7	8-054 3.2	.4 & 3.2.6	NV Mod	ified Sob	ek Prod	;				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qua
WG492540													
L57216-11DUP	DUP	03/03/20 12:16			U	U	%				0	20	RA
Sulfur Hno3 Ext	ractable	)	M600/2-7	8-054 3.2	.4 & 3.2.6	NV Mod	ified Sob	ek Prod	;				
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qua
WG492540													
L57216-11DUP	DUP	03/03/20 12:16			U	U	%				0	20	RA
Sulfur Hot H2o	Extracta	ble	M600/2-7	8-054 3.2	.4 & 3.2.6	NV Mod	ified Sob	ek Prod	;				
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qua
WG492540													
L57216-11DUP	DUP	03/03/20 12:16			U	U	%				0	20	RA
Sulfur Hot H2o	Residue		M600/2-7	8-054 3.2	.4 & 3.2.6	NV Mod	ified Sob	ek Prod	;				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qua
WG492540													
L57216-11DUP	DUP	03/03/20 12:16			U	U	%				0	20	RA
Sulfur Residual			M600/2-7	8-054 3.2	.4 & 3.2.6	NV Mod	ified Sob	ek Prod	;				
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qua
WG492540													
L57216-11DUP	DUP	03/03/20 12:16			U	U	%				0	20	RA
Sulfur Total			M600/2-7	8-054 3.2	.4 & 3.2.6	NV Mod	ified Sob	ek Prod	;				
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qua
WG492540													
L57216-11DUP	DUP	03/03/20 12:16			U	U	%				0	20	RA
L57216-11MS	MS	03/03/20 12:34	PCN60251	1.32	U	1.24	%	94	80	120			
WG492540LCSS	LCSS	03/03/20 12:52	PCN60246	4.01		3.41	%	85	80	120			
WG492540PBS	PBS	03/03/20 13:09				U	%		-0.03	0.03			

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# Wood - E&I Solutions, Inc.

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L57216-01	WG492540	H2O-Soluble Sulfate	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Hot Water Rinse Residue	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG491739	NAG	Sequential NAG - EGI 2002	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG492540	Non-Extractable Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Non-H2O Sulfate Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Pyritic Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Total Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L57216-02	WG492540	H2O-Soluble Sulfate	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Hot Water Rinse Residue	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG491739	NAG	Sequential NAG - EGI 2002	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG492540	Non-Extractable Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Non-H2O Sulfate Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Pyritic Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Total Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L57216-03	WG492540	H2O-Soluble Sulfate	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Hot Water Rinse Residue	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG491739	NAG	Sequential NAG - EGI 2002	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG492540	Non-Extractable Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Non-H2O Sulfate Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Pyritic Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Total Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

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# Wood - E&I Solutions, Inc.

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L57216-04	WG492540	H2O-Soluble Sulfate	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Hot Water Rinse Residue	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG491739	NAG	Sequential NAG - EGI 2002	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG492540	Non-Extractable Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Non-H2O Sulfate Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Pyritic Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Total Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L57216-05	WG492540	H2O-Soluble Sulfate	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Hot Water Rinse Residue	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG491739	NAG	Sequential NAG - EGI 2002	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG492540	Non-Extractable Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Non-H2O Sulfate Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Pyritic Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Total Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L57216-06	WG492540	H2O-Soluble Sulfate	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Hot Water Rinse Residue	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG491739	NAG	Sequential NAG - EGI 2002	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG492540	Non-Extractable Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Non-H2O Sulfate Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Pyritic Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Total Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

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# Wood - E&I Solutions, Inc.

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L57216-07	WG492540	H2O-Soluble Sulfate	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Hot Water Rinse Residue	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG491739	NAG	Sequential NAG - EGI 2002	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG492540	Non-Extractable Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Non-H2O Sulfate Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Pyritic Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Total Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L57216-08	WG492540	H2O-Soluble Sulfate	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Hot Water Rinse Residue	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG491739	NAG	Sequential NAG - EGI 2002	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG492540	Non-Extractable Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Non-H2O Sulfate Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Pyritic Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Total Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L57216-09	WG492540	H2O-Soluble Sulfate	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Hot Water Rinse Residue	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG491739	NAG	Sequential NAG - EGI 2002	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG492540	Non-Extractable Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Non-H2O Sulfate Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Pyritic Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Total Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

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ACZ Project ID: L57216

# Wood - E&I Solutions, Inc.

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L57216-10	WG492540	H2O-Soluble Sulfate	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Hot Water Rinse Residue	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG491739	NAG	Sequential NAG - EGI 2002	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG492540	Non-Extractable Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Non-H2O Sulfate Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Pyritic Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Total Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L57216-11	WG492540	H2O-Soluble Sulfate	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Hot Water Rinse Residue	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG491739	NAG	Sequential NAG - EGI 2002	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG492540	Non-Extractable Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Non-H2O Sulfate Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Pyritic Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Total Sulfur	M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Proc	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

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# Certification Qualifiers

Wood - E&I Solutions, Inc.

ACZ Project ID: L57216

### Soil Analysis

The following parameters are not offered for	certification or are not covered by AZ certificate #AZ0102.
NAC	Sequential NAG - EGI 2002

Neutralization Potential as CaCO3 M600/2-78-054 NV Modified Sobek Procedure

pH After Oxidation Sequential NAG - EGI 2002

Sulfur HCl Extractable M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure Sulfur HCI Residue M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure Sulfur HNO3 Extractable M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure Sulfur HNO3 Residue M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure Sulfur Hot H2O Extractable M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure Sulfur Hot H2O Residue M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure Sulfur Residual M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure Sulfur Total M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure

### The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

NAG Seguential NAG - EGI 2002

Neutralization Potential as CaCO3 M600/2-78-054 NV Modified Sobek Procedure

pH After Oxidation Sequential NAG - EGI 2002

Sulfur HCI Extractable M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure Sulfur HCI Residue M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure Sulfur HNO3 Extractable M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure Sulfur HNO3 Residue M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure Sulfur Hot H2O Extractable Sulfur Hot H2O Residue M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure Sulfur Residual M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure Sulfur Total M600/2-78-054 3.2.4 & 3.2.6 NV Modified Sobek Procedure

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ACZ Project ID:

L57216

Date Received: 02/03/2020 17:09

Received By:

Date Printed: 2/4/2020

Date F	Tiritea.	4	2/4/2020
Receipt Verification			
	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		Х	
4) Are any samples NRC licensable material?			Х
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	Х		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		Х	
Samples/Containers			
	YES	NO	NA
8) Are all containers intact and with no leaks?	Х		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? 1			Х
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			Х
14) Are samples that require zero headspace acceptable?			Х
15) Are all sample containers appropriate for analytical requirements?	Х		
16) Is there an Hg-1631 trip blank present?			Х
17) Is there a VOA trip blank present?			Х
18) Were all samples received within hold time?	Х		
	NA indica	tes Not A	pplicable

# **Chain of Custody Related Remarks**

# **Client Contact Remarks**

# **Shipping Containers**

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(μR/Hr)	Custody Seal Intact?
NA32298	16.2	NA	20	Yes
NA32292	19.7	NA	21	Yes
NA32288	20.3	NA	20	Yes
NA32293	19.9	NA	20	Yes
NA32286	21.2	NA	23	Yes
NA32287	20.6	NA	20	Yes
NA32296	9.7	NA	20	Yes

Was ice present in the shipment container(s)?

No - Wet or gel ice was not present in the shipment container(s).

**REPAD LPII 2012-03** 

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Sample Receipt

Wood - E&I Solutions, Inc.

ACZ Project ID: L57216

Date Received: 02/03/2020 17:09

Received By:

Date Printed: 2/4/2020

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

Custod			BP/A
·-	Atlantic	Richfield	2 OA BP affiliated company

Journal 912/57 / L 57216 | L 57216 |

Req Due Date (mm/dd/yy):

Page 3 of 4 Rush TAT: Yes No X

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721	BP affiliated company	BP/ARC Facility Name:	Name:	Ana	conde	Anaconda Copper		Mine Site			. Lab	Lab Work Order Number:	ır Numb	er:			<u> </u>		1
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æAddress:	s: 2773 Downhill Dr, Steamboat Springs, CO, 80487	ooat Springs, CO, 80	7487	Ċ Ś	State, Z	City, State, ZIP Code:	is	/er	ington	Yerington Nevada					u actor.	000	W 000 - E&I SOIUTIONS, INC.	ns, inc.	
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ab Bottle Order No.	Index No:				Elilos Flobosal No.	Sal No:				Work Release No	ase No:			Phone: 916	916-636-3200	Email:		Kent.Parrish@woodplc.com	lc.com
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mer into:	OU-4b_OU-5_Soil			Stage:				Activity:					=	Invoice To:	RP/ARC			 	
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ab (o.	Sample Description	Date	Time	bilo2 \	er / Liquid Vapor		Number of Contessived		3		Base Account	oid Generatior					S Parameter Sp.	Comments	
-		-			_			OS <sup>z</sup> H	ОИН	HCI	bioA nutlu2	A təM				ه ري ∑ي ا	Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.	collected, indic nts and single∹ rinted sample d	ate "No strike out lescription.
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MS/MSD Sample Submitted: Yes / No

L572
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# Laboratory Managément Program LaMP Chain of Custody Record

122516

BP/ARC Site Node Path: NV YERINGTON

BP/ARC Facility Name: Anaconda Copper Mine Site

Req Due Date (mm/dd/yy):

Lab Work Order Number:

Page 4 of 4 Rush TAT: Yes No X

21											•	20.00	5 5 5	Lab work Order Number:	Ľ						
and ACZ Laboratories, Inc.			BP/A	R C R	acility.	BP/ARC Facility Addres	ۋ	4	1 Austin Cirolo	9				-							
A Address: 2773 Downhill Dr Steamh	00 000						اي	-		<u>a</u>				<u>ರ</u>	nsultan	Consultant/Contractor:	ctor:	Mov	Wood - E&I Solutions, Inc.	itions, Inc.	
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ab Shipping Accnt: 2897-1804-4 (RC #)			Enfo	s Prog	Enfos Proposal No:	ij			*	Work Release No:	ase No:			+-	Phone:	916-6	916-636-3200	1		Kant Darrich@woodsto	1000
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BM Phone: 713-998-2443					<u>.</u> ├		3			io. containers / Preservative	<u></u>	-	-	Requested Analyses	d Ana	yses	ł		Repor	Report Type & QC Level	; Level
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DM Email: Chuck.Stilweil@bp.com						iners					_						-		Full Dat	Full Data Package	
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MS/MSD Sample Submitted: Yes / No

Trip Blank: Yes / No

,F/C

Temp Blank: Yes / No Cooler Temp on Receipt:

GT THIS LINE - LAB USE ONLY: Custody Seals in Place: Yes / No

(800) 334-5493 **ACZ** Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487

**Applies To** zme By

Production Acct:AMECCA Samp:L57216-11

Instruction Run QC

2773 Downhill L 2773 Downhill L 274/2020